

RATENT COOPERATION TRE **PCT**

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 0 9 MAR 2004

MIPO	PCT	

Application	WIPO PCT				
Applicant's or agent's file reference MC 1598 PCT	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/GB 03/02843	International filing date (day/month/year) 02.07.2003 Priority date (day/month/year) 04.07.2002				
International Patent Classification (IPC) or t C07C51/00	oth national classification and IPC				
Applicant JOHNSON MATTHEY PUBLIC LIN	IITED COMPANY et al.				
. 1. This international preliminary exa Authority and is transmitted to the	mination report has been prepared by this International Preliminary Examining applicant according to Article 36.				
2. This REPORT consists of a total of	of 4 sheets, including this cover sheet.				
This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets.					
3. This report contains indications re	lating to the following items:				
I 🖾 Basis of the opinion					
II Priority					
III Non-establishment of c	pinion with regard to novelty, inventive step and industrial applicability				
Lack of unity of invention	on				
V 🛭 Reasoned statement u citations and explanation	nder Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability;				
VI 🔲 Certain documents cite	d				
VII Certain defects in the in	nternational application				
	the international application				
Date of submission of the demand	Date of completion of this report				
17.01.2004 08.03.2004					
Name and mailing address of the internationa preliminary examining authority:	Authorized Officer.				
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International application No.

PCT/GB 03/02843

l.	Basis	of the	report
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1. With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): **Description, Pages** 1-7 as originally filed Claims, Numbers 1-7 as originally filed 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language: , which is: the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)). . the language of publication of the international application (under Rule 48.3(b)). the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3). 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. 4. The amendments have resulted in the cancellation of: the description, pages: the claims, Nos.: the drawings, sheets: This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)). (Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive ste	p or industrial	applicability
citations and explanations supporting such statement	;	•

1. Statement

Novelty (N)

Yes: Claims No:

1-7

Claims

Inventive step (IS)

Yes: Claims

1-7

1-7

Industrial applicability (IA)

No: Claims Yes:

Claims

No: Claims

2. Citations and explanations

see separate sheet

Section V

D1: US-A-4 440 649 D2: EP-A-0 572 113.

The present application is directed to a method of treating an alkali metal carboxylate salt brine contaminated with chloride ion, comprising admixing such contaminated brine with a solution of a silver salt, especially silver nitrate, causing silver chloride to be formed in a reaction mixture and separating the silver chloride from the residual brine.

D1 represents the closest prior art and discloses potassium acetate sea water brine contaminated with chloride ion. D1 differs from the subject matter of the present application insofar that the chloride ions are not removed from the brine.

The technical problem may be regarded as the provision of a process for reusing alkali metal carboxylate salt brine contaminated with chloride ion. The solution is given in claim 1 and concerns the separation of chloride ion via precipitation as silver chloride involving a silver salt.

Since alkali metal carboxylate salt brine is used in the field of drilling fluids, a high chloride ion concentration causes the brine to be more corrosive to the tubular goods.

It is, however, not deducible for the skilled person in the art from D1 to separate the chloride ions by precipitation with silver salts. Although it is known, that chloride can be precipitated as silver chloride, to use this method in the field of chloride contaminated alkali metal carboxylate salt brine is not obvious for the skilled person, because further options as for example ion exchangers would be applied.

Thus, the subject matter of claims 1-7 fulfills the criteria of Article 33(2) and (3) PCT with respect to the available prior art.